

In the claims:

Please amend the claims as shown below:

- 5 1. (Currently amended) A method for feeding ~~the feed of~~ a mixture of cellulose chips and fluid from a low-pressure system to a high-pressure system during the continuous cooking of chemical cellulose pulp, comprising:  
10 arranging a sluice feeder between the low-pressure system and the high-pressure system ~~in which the feed between these systems occurs in that a sluice feeder (53'')~~ is arranged between these systems for the sluice feeding of fluid and cellulose chips, the sluice feeder having a first inlet, a second inlet, a first outlet and a second outlet defined  
15 therein, the sluice feeder having a rotor with a first pocket and a second pocket and where the sluice feeder (53'') ~~is equipped with a first inlet (53a''), a second inlet (53c''), a first outlet (53b'') and a second outlet (53d''), and it comprises a rotor with through pockets (1'', 2''), which are~~  
20 placed alternately in connection with the high-pressure system and the low-pressure system;  
placing where the first pocket, (1'') ~~which is located in at a first position, is placed in connection in the low-pressure system with a chip bin (52'') or with an impregnation vessel~~  
25 of the low-pressure system (3'') essentially at atmospheric pressure while filling the first pocket (1'') ~~is filled with the a chips mixture and at the same time expelling fluid present in the first pocket, while at the same time expulsion of the fluid that is present in the pocket (1'')~~  
30 via the first outlet; (53b''),  
placing and where the second pocket (2''), which is located in at a second position, and is placed via the second outlet inlet (53d'') ~~in connection with a transfer line (6b'') in the high-pressure system while feeding the chips mixture is fed~~

out from the second pocket; ~~(2'')~~  
transporting the chips mixture onwardly ~~for transport onwards~~  
to a treatment vessel ~~(60'')~~ in the high-pressure system with  
the aid of a fluid that is fed into the second pocket ~~(2'')~~  
5 through the second inlet; ~~(53c'')~~,  
~~characterised in that~~  
connecting the second inlet ~~(53c'')~~ ~~is connected~~ via at least  
one withdrawal line ~~(70)~~ connected to the treatment vessel;  
~~(60'')~~,  
10 withdrawing pressurized fluid from which the treatment vessel;  
positioning the first pocket into the second position so that  
the first pocket is in connection with the high-pressure  
system;  
~~(60'')~~ ~~pressurised fluid is withdrawn, and that the said~~  
15 using the pressurized pressurized fluid is used to expel chips  
mixture from the first pocket ~~(1'')~~ when the first pocket is  
in connection with the high-pressure system;  
positioning the first pocket in the first position so that the  
first pocket is in connection with the low-pressure system;  
20 ~~and where the withdrawing previously pressurized pressurised~~  
fluid is withdrawn from the first pocket via the first outlet  
~~(53b'')~~ of the sluice feeder ~~from the pocket~~ ~~(1'')~~ and where  
forwarding a portion  $(REC_{kik})$  of the previously pressurized  
pressurised fluid is forwarded directly to a recovery system  
25 and wherein the portion  $(REC_{kik})$  constituting this portion  
constitutes at least 20% of the a total amount  $(REC_{tot})$  ~~that is~~  
withdrawn for recovery, while being at least 1 m<sup>3</sup>/tonne of  
pulp; and , with the aim of  
reducing the a total amount of electrical energy required to  
30 pump a the chips suspension from the low pressure system to  
the high pressure system through the sluice feeder.

2. (Currently amended) The method according to claim 1, ~~characterised in that the~~  
wherein a principal portion  
35 of the previously pressurised pressurized fluid is forwarded

to a chip bin (52'') arranged before the sluice feeder (53'), before the a portion (REC<sub>extr</sub>) of the previously pressurised pressurized fluid is forwarded to the recovery system via a withdrawal from the chip bin (52'').

5

3. (Currently amended) The method according to claim 1, ~~characterised in that the~~ wherein a principal portion of the previously pressurised pressurized fluid is forwarded to an impregnation vessel (3'') essentially at atmospheric pressure arranged before the sluice feeder before a portion (REC<sub>extr</sub>) of the previously pressurised pressurized fluid is forwarded to the recovery system via a withdrawal from the impregnation vessel (3''), which is at atmospheric pressure.

15 4. (Currently amended) The method according to ~~claims 1-3, characterised in that~~ claim 1 wherein at least a portion of the pressurised pressurized fluid is withdrawn from the treatment vessel (60'') with a strainer (90) at a position in the treatment vessel (60'') where the chips have had a retention time greater than 60 minutes, preferably greater than 100 minutes.

25 5. (Currently amended) The method according to claim 4, ~~characterised in that~~ wherein at least a portion of the pressurized pressurised fluid is withdrawn from a top separator (91) on the treatment vessels (60'').

30 6. (Currently amended) The method according to ~~claims 1-5, characterised in that~~ claim 1 wherein a recirculation line has (71) comprising at least one high-pressure pump (72) ~~extends and extends~~ from the first outlet (53b'') of the sluice feeder to the second inlet (53c'') of the sluice feeder for withdrawal of a portion of the previously pressurised pressurized fluid that has been expelled from the pockets of the sluice feed when ~~these the~~

35

pockets are located at their first positions, for the addition of ~~the~~ the portion of the previously pressurized fluid as makeup fluid to the second inlet (~~53e''~~) of the sluice feeder.

- 5     7. (Currently amended) The method according to claim 1, ~~cha~~  
~~racterised in that the~~ wherein a complete amount  
( $REC_{K1}$ ) of the previously ~~pressurised~~ pressurized fluid is  
forwarded to the recovery system.